

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (canceled).

2. (canceled).

3. (currently amended): A controller including ~~the~~a modular heat-radiation structure, said structure comprising:

a printed circuit board;

a module which generates heat, including a first main unit having a fixing hole and a lead for connecting to the printed circuit board;

a heat-radiation fin, fixed to the top face of the first main unit, for radiating heat generated in the module;

a resin-made insulating heat shield inserted between the printed circuit board and the first main unit; and

a fixing element which fixes the heat shield, the module, and the heat-radiation fin;
wherein:

a lead hole for allowing the lead to pass therethrough and a first fixing hole for allowing the fixing element to pass therethrough are provided in the heat shield, and

a second fixing hole for allowing the fixing element to pass therethrough is provided in the printed circuit board;~~as recited in claim 1,~~

wherein said controller comprises~~comprising~~:

an electric power source as a source for driving the module; and

a case, having a mouth for opening the top face of the module, for mounting the printed circuit board, the module, the electric power source, and the heat shield; wherein:

the case includes a separator for separating from the electric power source the heat-radiation fin and the module.

4. (original): A controller as recited in claim 3, wherein the separator includes:

a first separator attached to the case so as to be arranged along a side face of the heat-radiation fin, and

a second separator, being approximately U-shaped, attached to the heat shield so as to be arranged contacting or closed to the first separator.

5. (original): A controller as recited in claim 4, wherein:

the case is made of resin,

the mouth of the case is formed slightly larger than the first main unit, and

a head is provided closed to and facing the bottom face of the heat-radiation fin around the mouth of the case.

6. (currently amended): A controller including ~~the modular heat-radiation structure as recited in claim 1~~a modular heat-radiation structure, said structure comprising:

a printed circuit board;

a module which generates heat, including a first main unit having a fixing hole and a lead for connecting to the printed circuit board;

a heat-radiation fin, fixed to the top face of the first main unit, for radiating heat generated in the module;

a resin-made insulating heat shield inserted between the printed circuit board and the first main unit; and

a fixing element which fixes the heat shield, the module, and the heat-radiation fin;
wherein:

a lead hole for allowing the lead to pass therethrough and a first fixing hole for allowing the fixing element to pass therethrough are provided in the heat shield, and

a second fixing hole for allowing the fixing element to pass therethrough is provided in the printed circuit board;

wherein said controller comprisescomprising:

a stack which generates heat, including a second main unit, whose lead is fixed to the printed circuit board, being rectangularly and vertically arranged;

a heat-radiation fin including a mouth for protruding the second main unit of the stack, and also including a fold; and

a clip which contacts the fold to the second main unit, having elasticity towards its open/close movement.

7. (previously presented): A controller including the modular heat-radiation structure as recited in claim 6, wherein the heat shield is provided with a mouth for allowing the second main

unit of the stack to pass therethrough, and also with a protrusion for supporting the second main unit along the longitudinal orientation of the mouth.